## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- 1-10. (Cancelled)
- 11. (Currently Amended) A method of making an SMOS IC structure containing a plurality of transistors, the method comprising:

providing a first semiconductor substrate including a base layer, a strained semiconductor layer, a semiconductor/germanium layer and a first oxide layer, wherein the semiconductor/germanium layer is above the strained semiconductor layer;

attaching a second semiconductor substrate including a second oxide layer to the first oxide layer; and

separating the base layer from the first substrate; and siliciding the semiconductor/germanium layer.

- 12. (Currently Amended) The method of claim 11 28, wherein a the semiconductor/germanium layer is above the strained semiconductor layer.
  - (Original) The method of claim 12, further comprising: providing an aperture in the semiconductor/germanium layer.
  - 14. (Original) The method of claim 13, further comprising: doping the strained semiconductor layer through the aperture.
- 15. (Currently Amended) The method of claim 15 14, wherein the doping step forms source and drain extensions.
  - 16. (Original) The method of claim 13, further comprising: providing a gate conductor in the aperture.

-4-

Application No. 10/773,026

MILW\_1830479.1

- 17. (Currently Amended) The method of claim 16, further comprising: separating the gate conductor from the silicon semiconductor/germanium layer with a spacer material.
  - 18. (Currently Amended) The method of claim 12, further comprising: etching the semiconductor/germanium layer before siliciding; and siliciding the semiconductor/germanium layer.
- 19. (Original) The method of claim 11, wherein the attaching step is a hydrogen bonding step.
- 20. (Currently Amended) A method of manufacturing of an integrated circuit, the integrated circuit comprising a first wafer and a second wafer, the first wafer including a silicon semiconductor germanium layer, a strained silicon semiconductor layer, and a first insulating layer, the second wafer including a substrate and a second insulating layer, the second insulating layer being attached to the first insulating layer, the method comprising steps of:

providing the first wafer including the base layer, silicon semiconductor germanium layer, the strained silicon semiconductor layer, and the first insulating layer; attaching the second wafer to the first wafer; and separating base layer from the first wafer: and siliciding the semiconductor/germanium layer.

- 21. (Previously Presented) The method of claim 20 wherein the substrate is a bulk silicon substrate.
- 22. (Previously Presented) The method of claim 20, wherein the substrate is a semiconductor material.
- 23. (Currently Amended) The method of claim 22, wherein the silicon semiconductor germanium layer includes a hydrogen breaking interface.

- 24. (Currently Amended) The method of claim 20, wherein a channel region is disposed in the strained silicon semiconductor layer.
- 25. (Currently Amended) The method of claim 24, wherein a source region and a drain region are disposed in the strained silieon semiconductor layer.
- 26. (Currently Amended) The method of claim 25, wherein an aperture is formed in the silicon semiconductor germanium layer to expose the strained silicon semiconductor layer.
- 27. (Previously Presented) The method of claim 26, wherein a gate structure is provided in the aperture.
- 28. (Currently Amended) A method of fabricating a multilayer structure containing a plurality of transistors including strained regions, the multilayer structure comprising a semiconductor/germanium layer, a strained semiconductor layer, a gate dielectric, and a gate conductor including a source and a drain provided below the semiconductor/germanium layer, the semiconductor/germanium layer having an aperture, the gate dielectric above the strained semiconductor layer and within the aperture, the gate conductor being disposed within the aperture, the method comprising:

providing a first substrate including the semiconductor/germanium layer, the strained semiconductor layer, and a first oxide layer;

attaching a second substrate including a second oxide layer to the first oxide layer; providing the aperture within the semiconductor/germanium layer; and providing the gate dielectric and gate conductor within the aperture; and providing a silicide layer above the semiconductor/germanium layer.

29. (Previously Presented) The method of claim 28, further comprising:

providing a spacer in the aperture separating the semiconductor/germanium layer and the gate conductor.

30. (Currently Amended) The method of claim 28, further comprising:

etching the semiconductor/germanium layer before providing a silicide layer.

providing silicide layer above the semiconductor/germanium layer.